Index of Claims

| Application/Control N | 40 | • |
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09/489,730

Examiner

HUNG Q. PHAM

Applicant(s)/Patent under Reexamination

HARTMAN ET AL.

Art Unit

2162

| <b>√</b> | Rejected |
|----------|----------|
|          | Allowed  |

|   | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| Γ | Interference |

| A | Appeal   |
|---|----------|
| o | Objected |

| Cla      | aim      |          |           |          | - [                | Date                                | е        |              |              |   | ]        | Cla             | im       |               |         | - 1     | Date            |          |                                |        | CI    | aim      | Γ            |         |         | Da       | te                                     |                       |          |          |
|----------|----------|----------|-----------|----------|--------------------|-------------------------------------|----------|--------------|--------------|---|----------|-----------------|----------|---------------|---------|---------|-----------------|----------|--------------------------------|--------|-------|----------|--------------|---------|---------|----------|--|-----------------------|----------|----------|
|          | -        |          |           |          |                    |                                     |          |              |              |   | 1        |                 | <u> </u> |               |         |         |                 |          |                                |        |       | -        |              |         |         | Τ        |  |                       |          |          |
| Final    | Original | 5/2/05   |           |          |                    |                                     | 1        |              |              |   |          | Final           | Original |               |         | ŀ       |                 |          |                                |        | Final | Original |              |         |         |          |  | ll                    |          |          |
| iĒ       | Ĕ,       | 5/2      |           |          |                    |                                     |          | ŀ            |              |   |          | 這               | Ĕ        |               |         |         |                 |          |                                |        | ίĒ    | ΙË       |              |         | 1       |          |  |                       |          |          |
|          |          |          |           |          |                    |                                     |          |              |              |   |          |                 |          |               |         |         |                 |          |                                | _      |       |          |              |         |         |          |  | Ш                     |          |          |
| 1        | 1_       | =        |           |          |                    |                                     |          |              |              |   |          |                 | 51       |               |         |         |                 |          |                                |        |       | 101      |              |         |         | $\perp$  |  |                       |          |          |
| 2        | 2        | =        |           |          |                    |                                     |          |              |              |   | ]        |                 | 52       |               |         |         |                 |          |                                |        |       | 102      |              |         |         | $\prod$  |  |                       |          |          |
| 3        | 3        | =        |           |          |                    |                                     |          |              |              |   | ]        |                 | 53       |               |         |         |                 |          |                                |        |       | 103      |              |         |         |          |  |                       |          |          |
| 4        | 4        | =        |           |          |                    |                                     |          |              |              |   | ]        |                 | 54       |               |         |         |                 |          |                                |        |       | 104      |              |         |         |          |  |                       |          |          |
| L        | 5        |          |           |          |                    |                                     |          |              |              |   |          |                 | 55       |               | $\perp$ |         |                 |          |                                |        |       | 105      |              |         | $\perp$ |          |  |                       |          |          |
| 5        | 6        | =        |           |          |                    |                                     |          |              |              |   | ]        |                 | 56       |               | $\perp$ |         |                 |          |                                |        |       | 106      |              |         | $\perp$ |          |  |                       | $\perp$  | $\sqcup$ |
| 6        | 7        | =        |           |          | _                  |                                     |          |              |              |   |          |                 | 57       |               | ┸       |         | Ш               |          |                                | _      |       | 107      |              |         | $\perp$ |          | <u> </u>                               |                       |          |          |
| 7        | 8        | =        |           |          | L                  |                                     | <u></u>  | <u></u>      | Ш            |   |          |                 | 58       |               | $\perp$ |         | Ш               |          | $\bot\bot$                     |        |       | 108      |              |         | 丄       | $\perp$  |  | Ш                     | $ \bot $ | 凵        |
| 8        | 9        | =        |           |          |                    |                                     |          | _            |              |   |          |                 | 59       |               |         |         |                 |          | $\perp$                        | _      |       | 109      |              |         |         | $\perp$  |  | Ш                     |          |          |
| 9        | 10       | =        |           |          |                    | L                                   | _        |              | Ш            |   |          |                 | 60       |               | $\perp$ |         | Ш               |          | Ш.                             | _      |       | 110      | Ш            |         |         |          |  | Ш                     | _        |          |
| 10       | 11       | =        |           |          | <u> </u>           | L_                                  |          |              | $oxed{oxed}$ |   |          |                 | 61       | Ш             |         |         | Ш               | $\perp$  | $\perp \perp$                  | _      |       | 111      |              |         |         | $\perp$  |  | Ш                     |          |          |
|          | 12       |          |           |          | L                  | L_                                  | _        |              | $oxed{oxed}$ | L |          |                 | 62       | Ш             | $\perp$ | $\perp$ | Ш               | <u> </u> |                                | _      |       | 112      | Ш            |         |         | $\perp$  |  | Ц                     | $\bot$   |          |
| 11       | 13       | =        | Ш         |          |                    |                                     |          |              | $oxed{oxed}$ |   | ]        |                 | 63       |               | $\perp$ |         |                 |          | $\perp \perp$                  | _      |       | 113      |              |         | $\perp$ | _        | _                                      | Ш                     | [        |          |
| 12       | 14       | =        |           |          |                    |                                     |          |              | Ш            |   |          | Ŀ               | 64       |               |         | $\perp$ | Ш               |          | Ш.                             | _      |       | 114      | Ш            |         |         |          | L                                      | Ш                     |          |          |
| 13       | 15       | Ξ        | Ĺ         |          | $oxedsymbol{oxed}$ |                                     |          |              | Щ            |   | <b>.</b> |                 | 65       | Щ             | $\perp$ |         | Ш               | $\perp$  | $\perp \downarrow$             | _      |       | 115      | Ш            |         | $\perp$ | $\perp$  |  | Ц                     | [        |          |
| 14       | 16       | =        |           |          | L                  |                                     |          |              |              |   |          | Ш               | 66       |               | $\perp$ | ŀ       |                 |          | $\perp \perp$                  |        |       | 116      | Ш            |         |         | ┸        |  | Ш                     |          |          |
| 15       | 17       | =        |           |          | oxdot              | $oxed{oxed}$                        |          |              | $oxed{oxed}$ |   |          | I               | 67       | Ш.            |         |         |                 |          |                                | _      |       | 117      | $oxed{oxed}$ |         | L       | L        |  | Ш                     |          |          |
| 16       | 18       | =        |           |          |                    |                                     |          |              |              |   | ]:::::   |                 | 68       |               |         |         |                 |          |                                |        |       | 118      |              |         |         |          | _                                      | Ш                     |          |          |
| 17       | 19       | =        |           |          |                    |                                     |          |              |              |   |          |                 | 69       |               |         |         |                 |          |                                |        |       | 119      |              |         |         |          |  | $\Box$                |          |          |
|          | 20       |          |           |          |                    |                                     |          |              |              |   |          |                 | 70       |               |         |         |                 |          |                                |        |       | 120      |              |         |         |          |  | $\Box$                |          |          |
| 18       | 21       | =        |           |          |                    |                                     |          |              |              |   |          |                 | 71       |               |         |         |                 |          |                                |        |       | 121      |              |         |         |          |  |                       |          |          |
| 19       | 22       | =        |           |          |                    |                                     |          |              |              |   |          |                 | 72       |               |         |         |                 |          |                                |        |       | 122      |              |         |         |          |  |                       |          |          |
| 20       | 23       | =        |           |          |                    |                                     |          |              |              |   | ]        |                 | 73       |               |         |         |                 |          | $\perp \perp$                  |        |       | 123      |              |         |         | L        |  |                       |          |          |
| 21       | 24       | =        |           |          |                    |                                     |          |              |              |   |          |                 | 74       |               |         |         |                 |          |                                |        |       | 124      |              |         |         | L        |  | Ш                     |          | ╝        |
| 22       | 25       | =        |           |          |                    |                                     |          |              |              |   |          |                 | 75       |               |         |         |                 |          |                                |        |       | 125      |              |         |         |          |  | Ш                     |          | ┙        |
| 23       | 26       | =        | Ш         |          |                    |                                     |          |              |              |   |          |                 | 76       |               |         |         |                 |          |                                | _      |       | 126      |              |         | $\perp$ |          |  | Ш                     |          |          |
|          | 27       | L        |           |          |                    |                                     | L        | L            | Ш            |   |          |                 | 77       |               |         |         | Ш               | $\bot$   |                                | _      |       | 127      | Ш            |         | ┸       | $\perp$  |  | Ш                     | $\perp$  | ╝        |
| 24       | 28       | =        |           |          |                    |                                     |          | L            |              |   |          |                 | 78       |               |         |         |                 |          |                                | _ :::: |       | 128      |              |         |         | 丄        |  | Ш                     | $\sqcup$ | ╝        |
| _25      | 29       | =        |           |          |                    |                                     | L        | 乚            | $oxed{oxed}$ |   |          |                 | 79       | $\Box$        |         |         |                 |          | $\perp \perp$                  | _      |       | 129      | $\Box$       |         | $\perp$ | 上        | $\perp$                                | Ш                     | ┙        |          |
| 26       | 30       | =        |           |          |                    |                                     |          | L            |              |   |          |                 | 80       |               |         |         | Ш               |          | $\perp \perp$                  | _      |       | 130      | Ш            |         | $\perp$ | $\perp$  | <u> </u>                               | Ш                     | ┙        | ┙        |
| 27       | 31       | =        |           |          |                    |                                     |          |              |              |   |          |                 | 81       |               |         |         |                 |          |                                | _];;;; |       | 131      |              |         |         | <u> </u> |  |                       |          |          |
| 28       | 32       | =        | Ш         |          |                    |                                     |          |              | Ш            |   |          |                 | 82       |               |         |         |                 | $\bot$   |                                | _ !!!! |       | 132      | Ш            | $\perp$ | $\perp$ | ot       |  | Ш                     |          | _        |
| 29       | 33       | =        |           |          |                    |                                     |          |              |              | _ |          | igsqcut         | 83       | $\sqcup$      | $\perp$ | 4_      | Ш               | _ _      | $\bot\bot$                     | _      | L     | 133      | Ш            |         | $\perp$ | 1        | $oldsymbol{oldsymbol{oldsymbol{eta}}}$ | $\sqcup$              |          |          |
| 30       | 34       | =        | Ш         |          |                    |                                     |          | <u> </u>     |              |   | liiii    | $\sqcup \sqcup$ | 84       |               | $\perp$ | Ц       | Li              |          | $\bot \bot$                    | _      |       | 134      | Ш            | _ _     |         | $\perp$  | <u> </u>                               | Ш                     |          | $\Box$   |
| L        | 35       | <u> </u> | Ш         |          | Щ                  | Ľ.                                  | <u> </u> | $oxed{oxed}$ | Ш            | _ | <b>.</b> |                 | 85       | $\sqcup$      | $\perp$ | _       | Ш               |          | $\bot \bot$                    | _      |       | 135      | Ш            |         | 4       | $\perp$  | 1_                                     | Ш                     |          | $\Box$   |
| 31       | 36       | =        | Щ         |          | L                  |                                     | <u> </u> | $oxed{oxed}$ | Ш            |   |          | $\sqcup$        | 86       | Ш             | ᆚ       |         | $\sqcup$        | $\bot$   | 1-1-                           | _      |       | 136      | Ш            |         | $\perp$ | ╄        | <u> </u>                               | $\sqcup$              | _        |          |
| 32       | 37       | =        | Ш         |          | L                  |                                     | <u> </u> | <u> </u>     | Ш            |   | liiii    | $\sqcup \sqcup$ | 87       | $\sqcup$      | $\perp$ | 4_      | $\sqcup$        | $\perp$  | $\sqcup$                       | _      |       | 137      | Щ            |         | $\bot$  | $\perp$  | 1                                      | $\sqcup$              | $\dashv$ |          |
| 33       | 38       | =        | Ш         | Ш        | Ш                  |                                     | _        | $oxed{oxed}$ | Ш            | _ |          |                 | 88       | $\sqcup \bot$ | $\perp$ | ┦—      | Ш               |          | ↓ ↓                            | _      |       | 138      |              | $\perp$ | $\perp$ | $\perp$  | L.                                     | $\sqcup$              |          |          |
| 34       | 39       | =        | Ш         |          |                    |                                     |          | <u> </u>     | Ш            |   | liiii    |                 | 89       | $\sqcup$      | $\perp$ | 1       | Щ               |          | ++                             | _      |       | 139      | $\sqcup$     | $\perp$ | $\perp$ | $\bot$   | ↓_                                     | Щ                     |          |          |
| 35       | 40       | =        | Ш         |          | Ш                  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u> | <u> </u>     | Ш            | _ | liii     | igsqcut         | 90       | $\sqcup$      | $\perp$ |         | Щ               | $\bot$   | ++                             | _      |       | 140      | Ш            | $\perp$ | $\perp$ | 4        | 1_                                     | $\sqcup$              |          |          |
| 36       | 41       | =        | Ш         | Щ        | Щ                  | <u> </u>                            | Ш        | <u> </u>     | Ш            |   |          | $oxed{oxed}$    | 91       |               | 4       | 4_      | Щ               |          | ++                             | 4      |       | 141      | Щ            |         | $\bot$  | 1        | 1_                                     | Щ                     | _        | _        |
| <u></u>  | 42       | <u> </u> | $\square$ |          |                    | <u> </u>                            | Щ        | <u> </u>     | Ш            | _ |          |                 | 92       | $\Box$        | $\bot$  |         | Ш               | $\perp$  | $\bot \bot$                    | 4::::  |       | 142      | Щ            |         | $\bot$  | $\perp$  | <b>!</b> _                             | $\sqcup$              | _        | _        |
| 37       | 43       | ᆖ        | Щ         | $\sqcup$ | Щ                  | <u> </u>                            | _        | Щ            | Ш            | _ |          |                 | 93       |               | _       | Щ.      | $\sqcup$        |          | $\bot \bot$                    | _ :::: |       | 143      | $\sqcup$     |         | +       | $\bot$   | <u> </u>                               | $\sqcup$              |          | _        |
| 38       | 44       | =        | Щ         | Ш        | Ш                  |                                     | $\vdash$ | <u> </u>     | $\sqcup$     |   |          |                 | 94       | $\dashv$      | $\perp$ | ┿       | $\vdash \vdash$ | $\dashv$ | ++                             | 4      |       | 144      | Щ            | _       | +       | $\bot$   | <u> </u>                               | $\sqcup$              | 4        | _        |
| 39       | 45       | 트        | Ш         |          | Щ                  | Щ                                   | ļ_       | $\vdash$     | Ш            | _ | l        | igsqcut         | 95       | 1             |         | 4_      | $\sqcup$        |          | 4-4                            | -      |       | 145      | $\sqcup$     | _       | 4       | +-       | ـــ                                    | $\sqcup$              | _        | $\dashv$ |
| L        | 46       | <u> </u> | Ш         | Ш        | Ш                  | Щ                                   | $\vdash$ | <u> </u>     | $\sqcup$     | _ |          | <b>  </b>       | 96       | $\vdash$      | $\perp$ | 4       | $\sqcup$        | +        | ++                             | _      |       | 146      | Щ            | _       | +       | ┼-       | ┞                                      | $\sqcup$              | _        | _        |
|          | 47       | <u> </u> | Н         | Щ        | Щ                  | Ш                                   | Щ        | <u> </u>     | Н            | _ |          |                 | 97       |               | -       | -       | Ļļ              | -        | +                              | 4      |       | 147      | $\sqcup$     | +       | +       | +        | ↓_                                     | $\sqcup$              | _        | 4        |
| <u> </u> | 48       | <u> </u> | Щ         |          | Ш                  | Щ                                   | Ш        | <u> </u>     | $\sqcup$     | _ |          | $\vdash$        | 98       | $\vdash$      | - -     | +-      | $\sqcup$        | +        | +                              | - :::: |       | 148      |              | -       | +       | ╂—       | ـ                                      | ${oldsymbol{\sqcup}}$ | _        | _        |
| <u> </u> | 49       | _        | Ш         | _        | Щ                  | Щ                                   | Ш        | <u> </u>     | $\sqcup$     |   |          | <b></b>         | 99       | $\vdash$      | $\bot$  | +-      | $\sqcup$        |          | ++                             | -      |       | 149      | $\sqcup$     | -       | +       | +-       | <u> </u>                               | $\sqcup$              | _        | _        |
|          | 50       |          |           |          | 1                  |                                     |          | l            | L            |   | <b></b>  |                 | 100      |               | J       | 1       | 1 1             | - 1      | $\mathbf{L}_{-}\mathbf{L}_{-}$ | Jiiii  |       | 150      |              | L       |         | L        | 1                                      | 1 1                   | - 1      | - 1      |